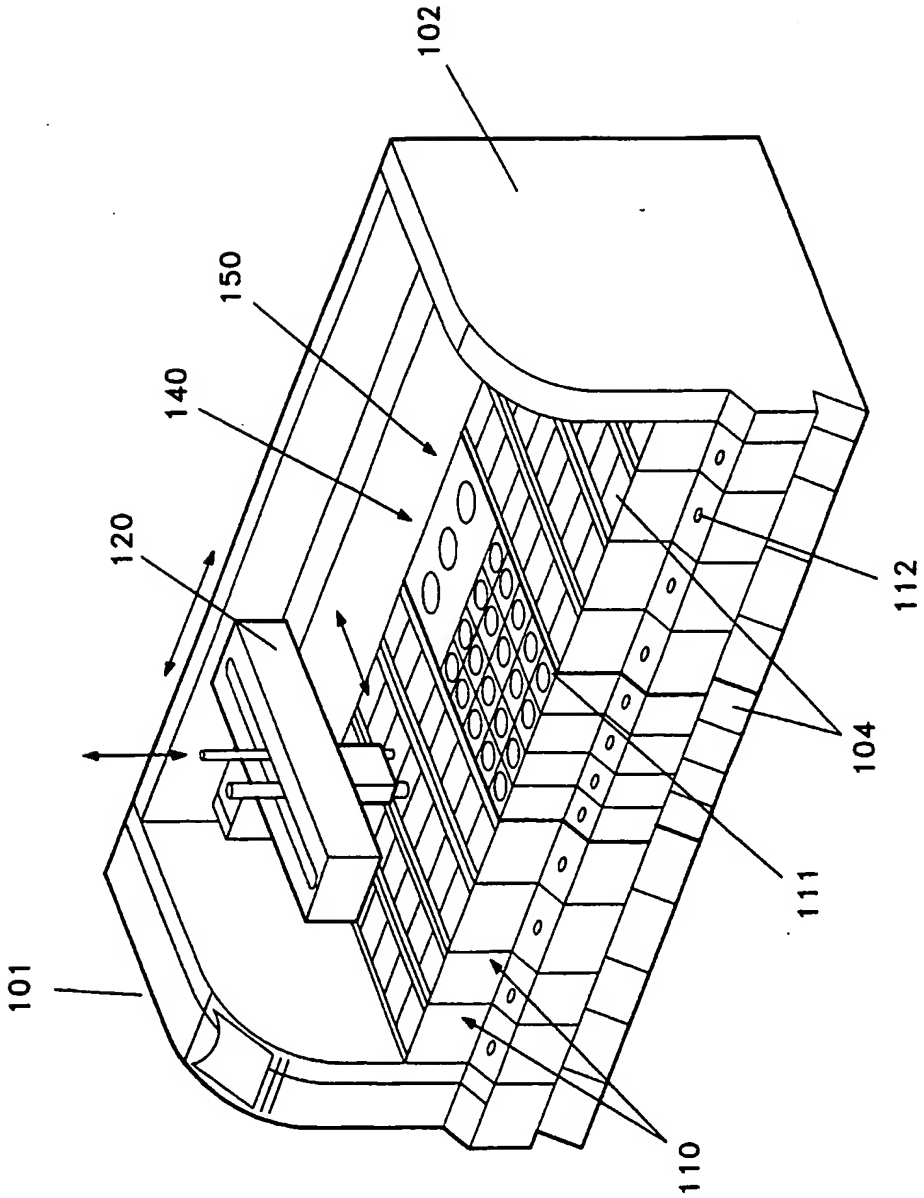


Fig. 1

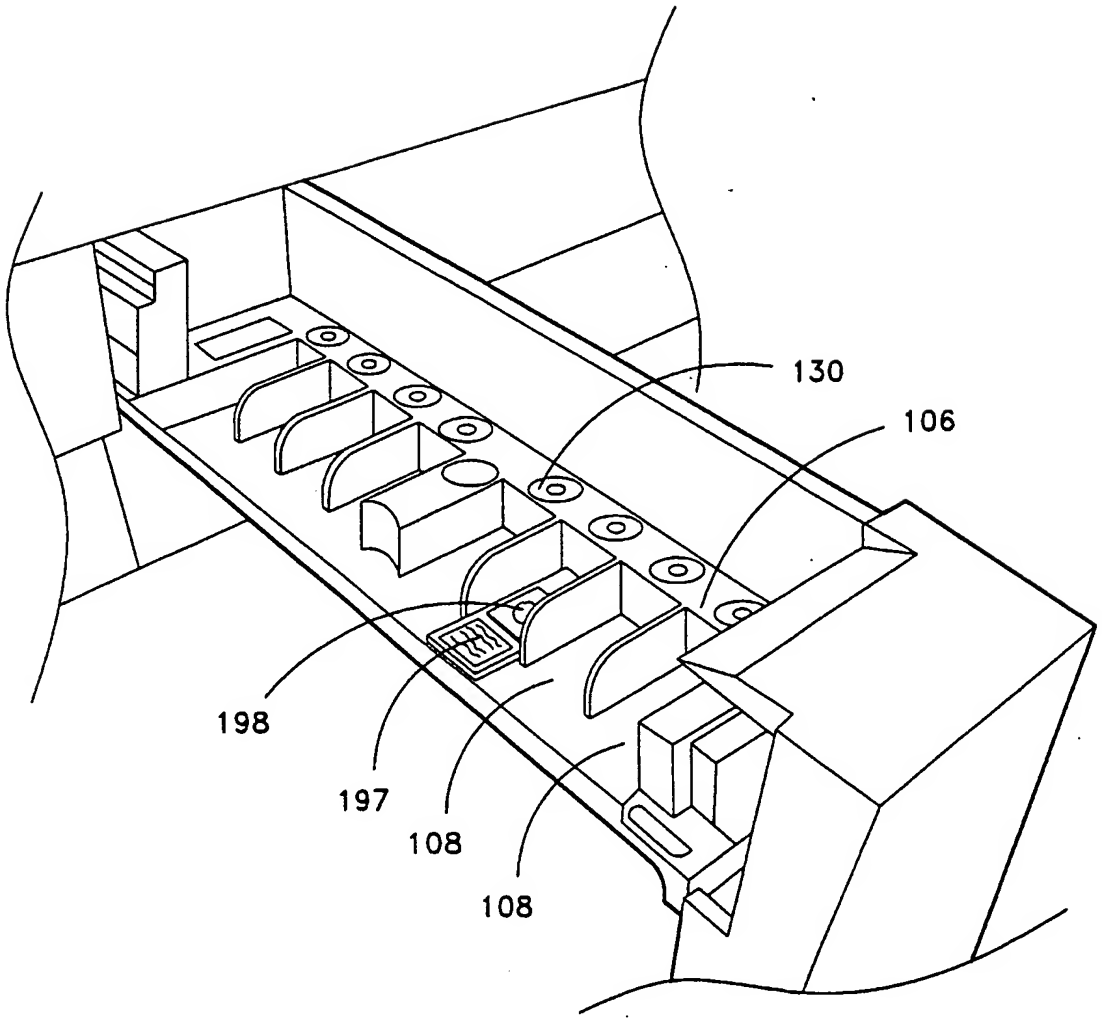
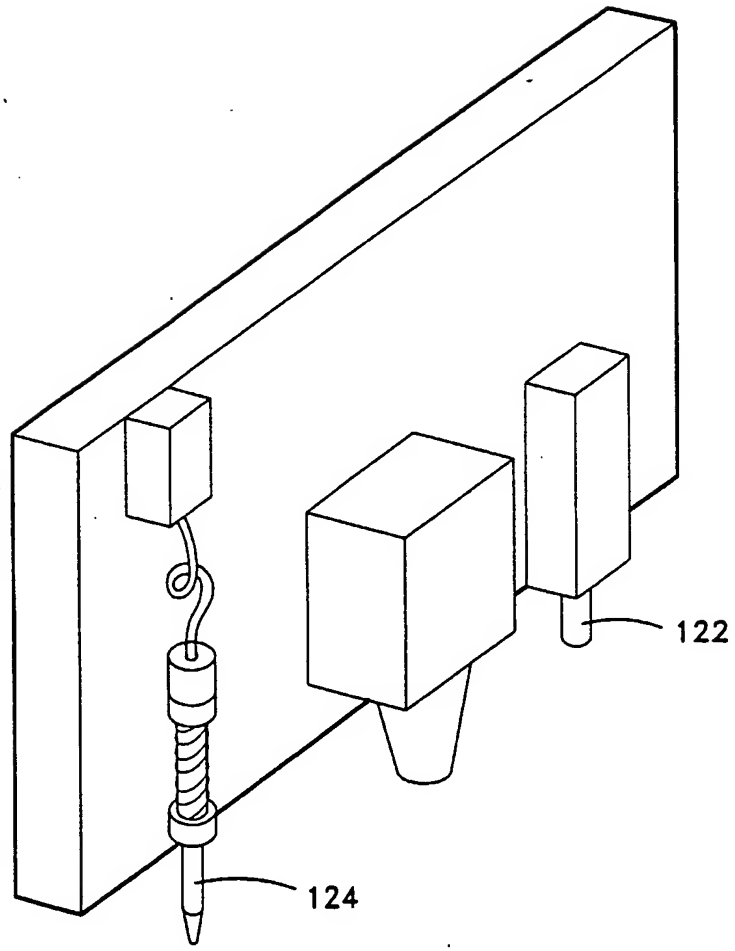


Fig. 2



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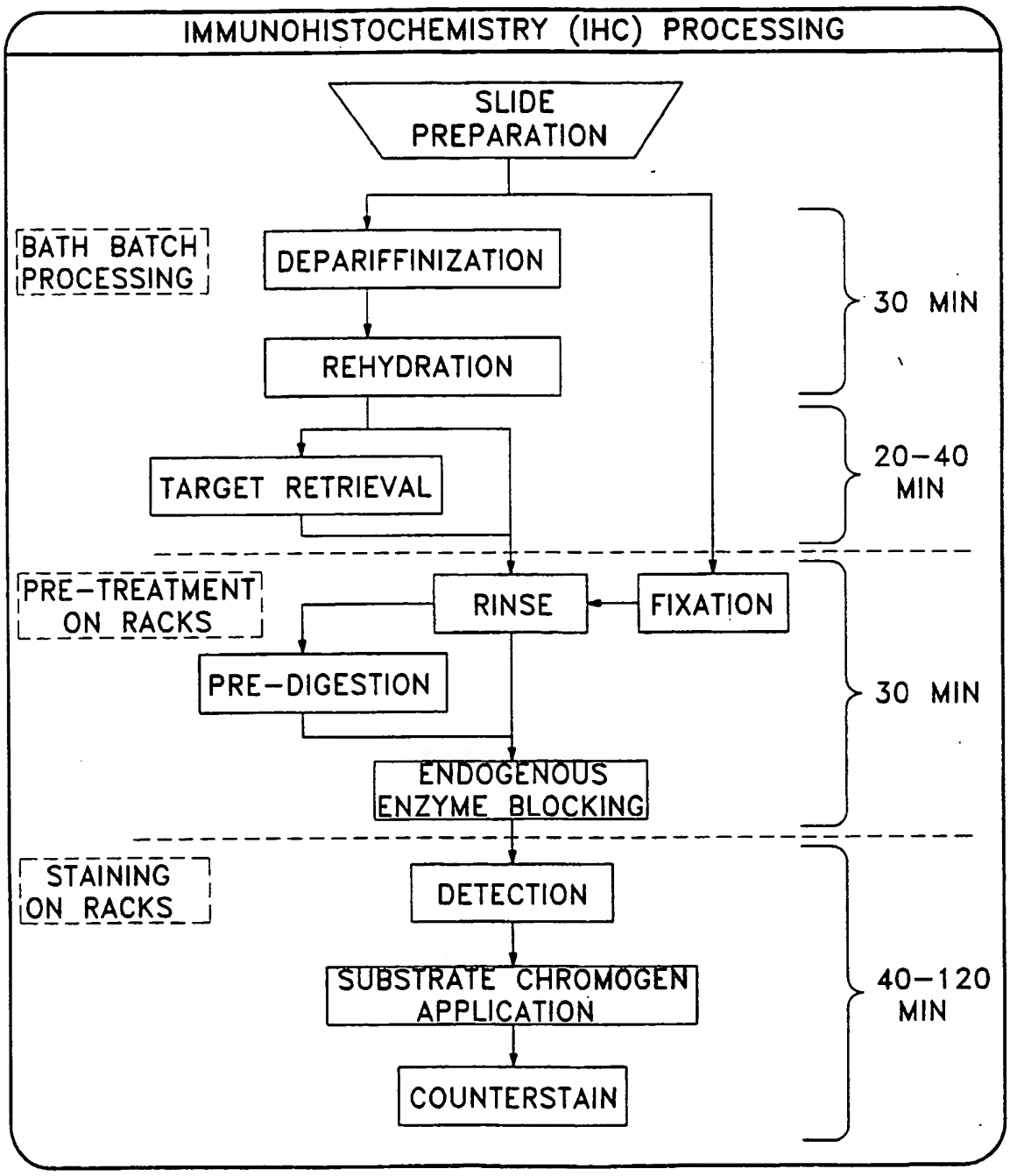
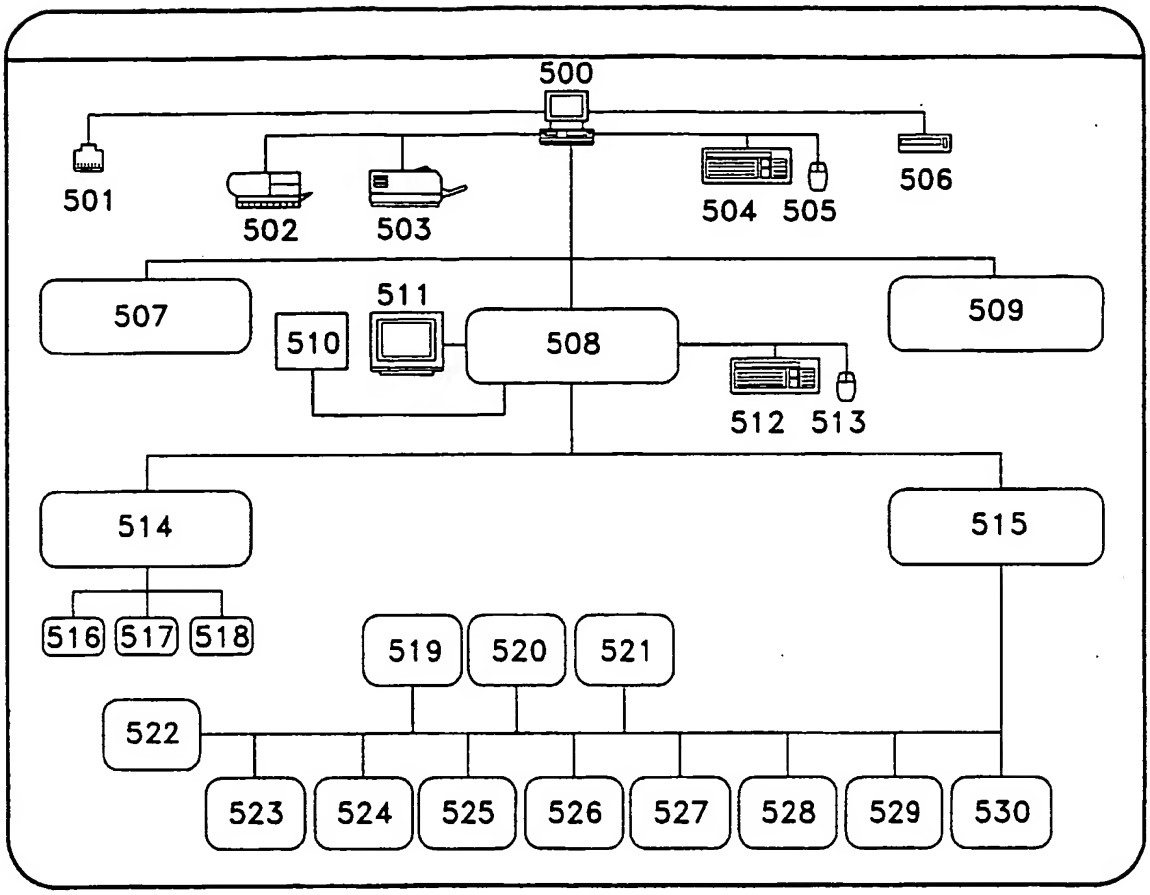

IMMUNOHISTOCHEMISTRY (IHC) PROCESSING
SLIDE PREPARATION
BATH BATCH PROCESSING
DEPARIFFINIZATION
REHYDRATION
30 MIN
TARGET RETRIEVAL
20–40 MIN
PRE–TREATMENT ON RACKS
RINSE
FIXATION
PRE–DIGESTION
30 MIN
ENDOGENOUS ENZYME BLOCKING
STAINING ON RACKS
DETECTION
SUBSTRATE CHROMOGEN APPLICATION
40–120 MIN
COUNTERSTAIN

Fig. 4



Key to Figure 5

500 Manager	516 X-Axis
501 100 BaseT	517 Y-Axis
502 Laser printer	518 Z-Axis
503 Data Matrix Label Printer	519 LCD Touch
504 Keyboard	520 Probe Wash/Swap
505 Mouse	521 Misc PCBA
506 Storage Media	522 Cart PCBA
507 Stainer A Embedded PC	523 Drawer 1 Control
508 Stainer B Embedded PC	524 Drawer 2 Control
509 Stainer C Embedded PC	525 Drawer 3 Control
510 Touch Screen	526 Drawer 4 Control
511 Monitor	527 Drawer 5 Control
512 Keyboard	528 Drawer 6 Control
513 Mouse	529 Drawer 7 Control
514 Motor Controller	530 Drawer 8 Control
515 Master PCBA	

Fig. 5

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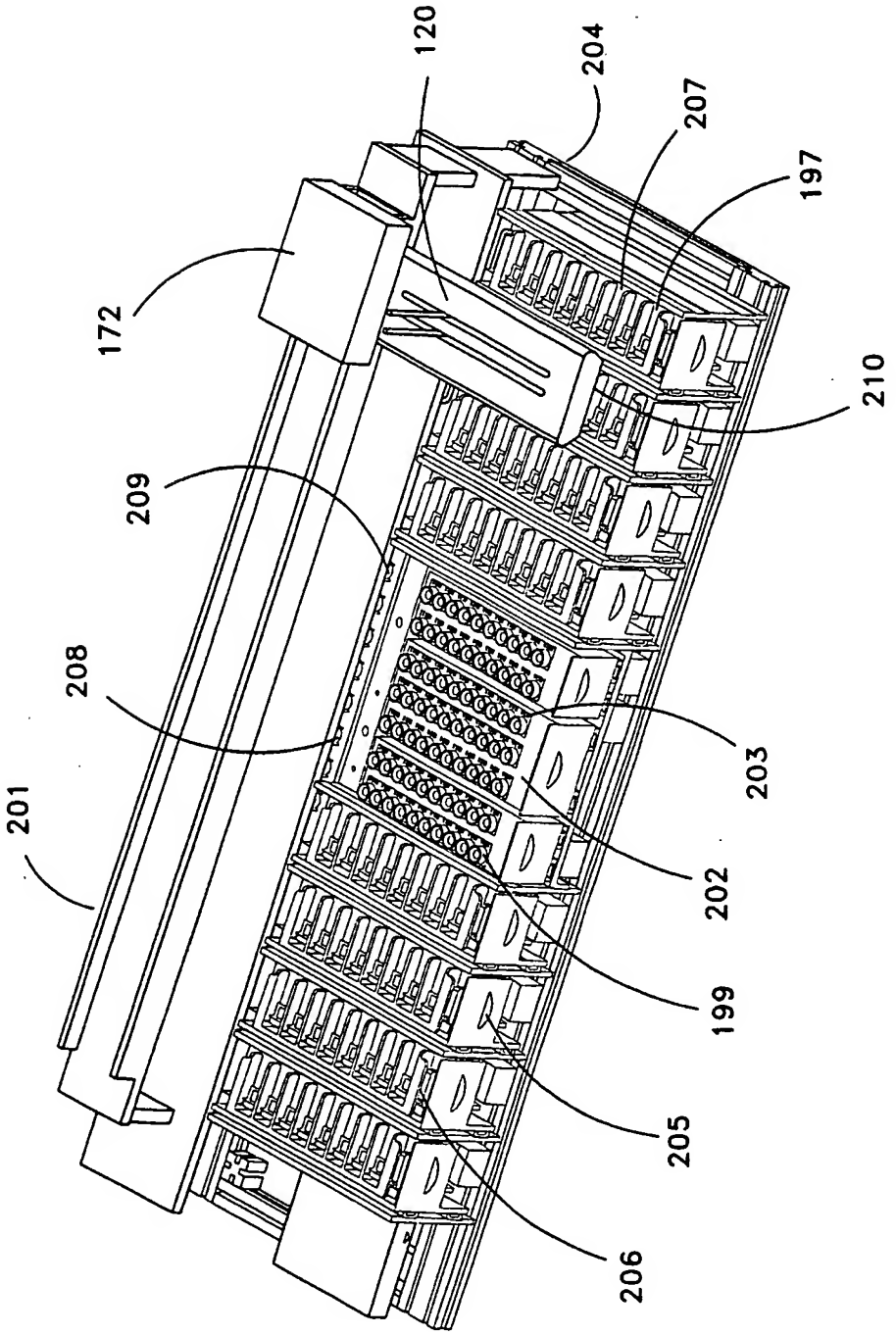


Fig. 6

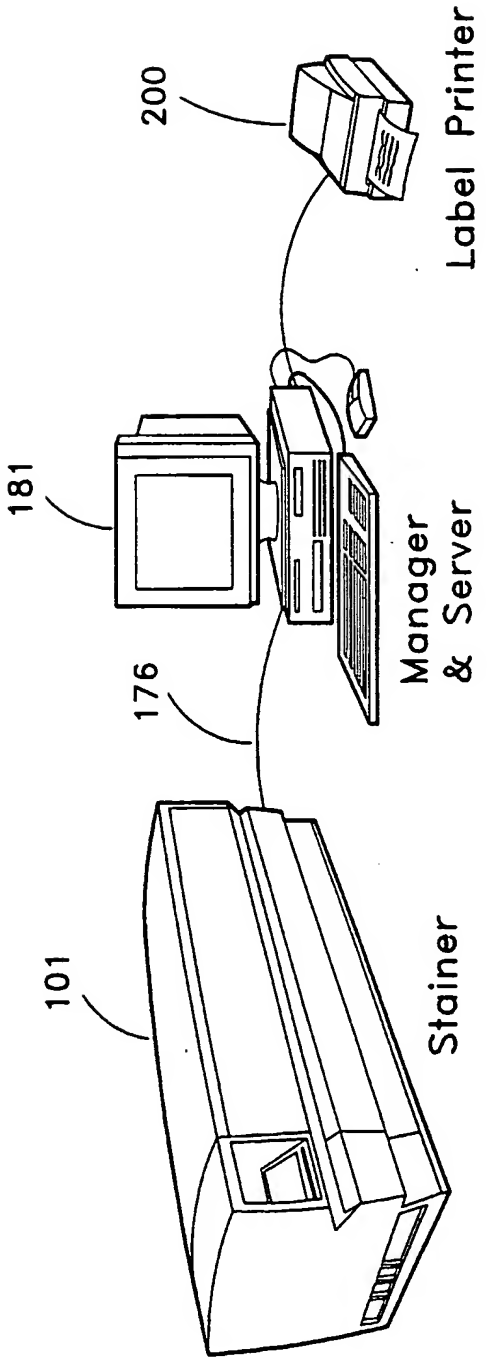
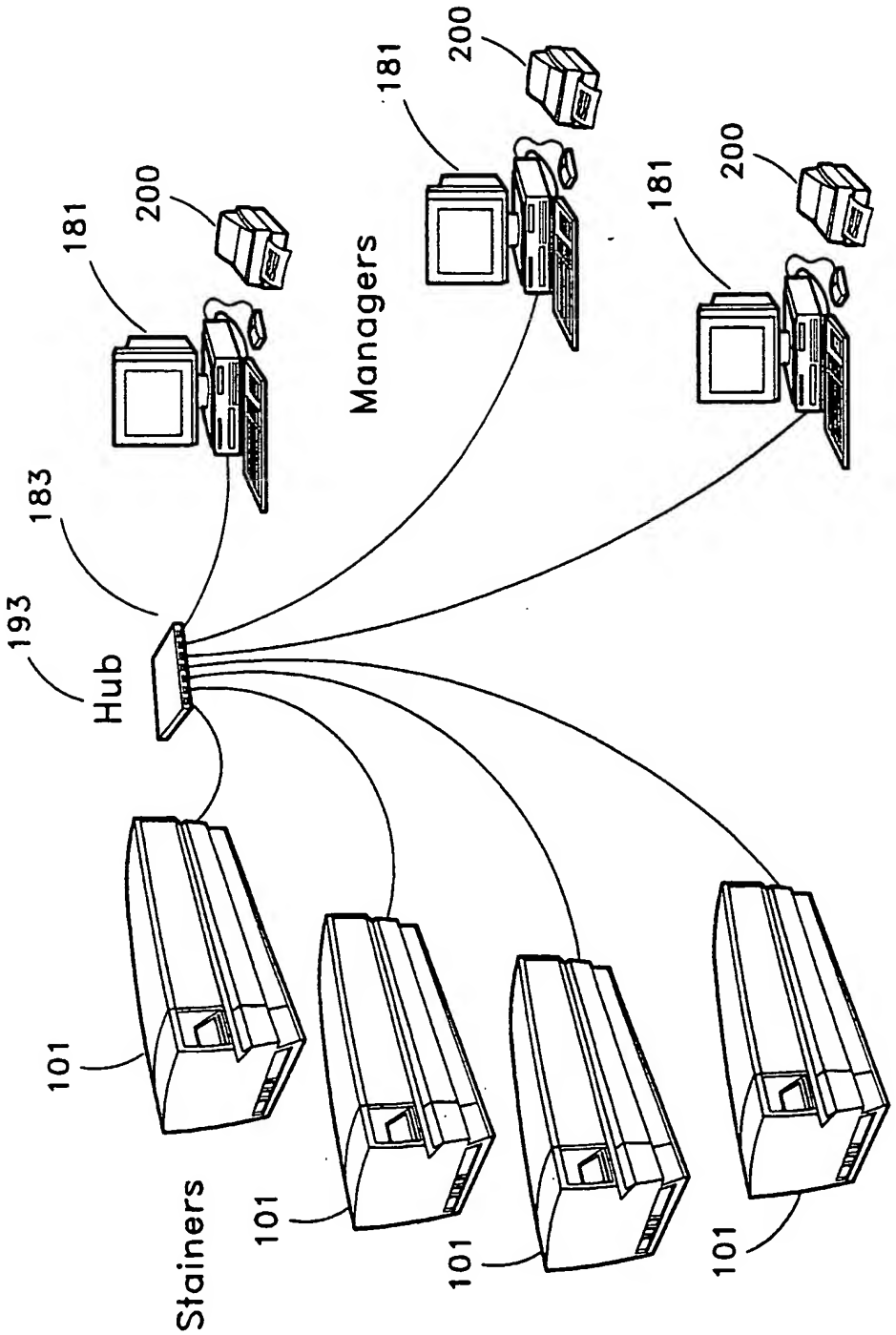


Fig. 7


200
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200
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200
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Managers
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Hub
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Stainers

Fig. 8

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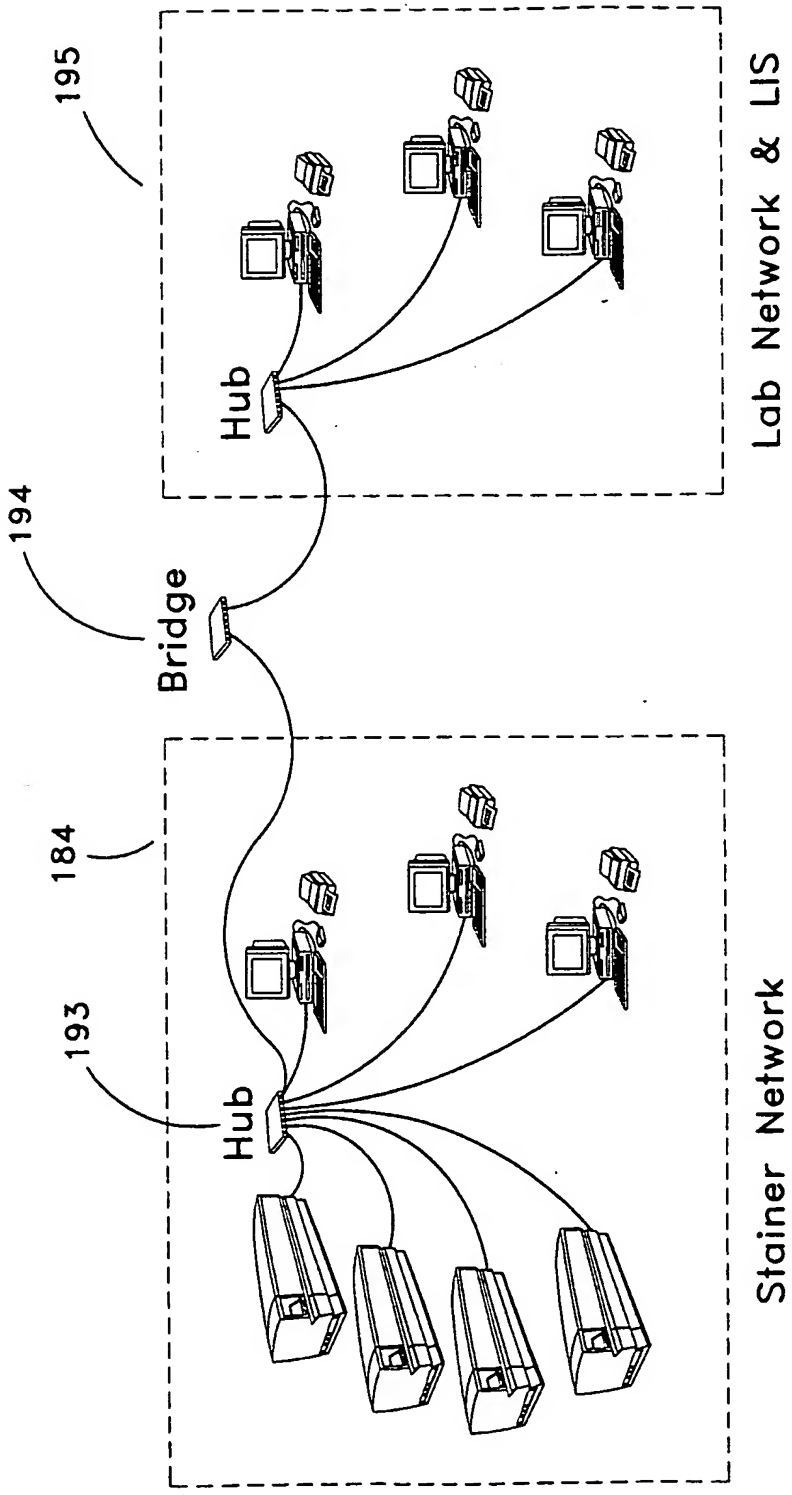

Fig. 9

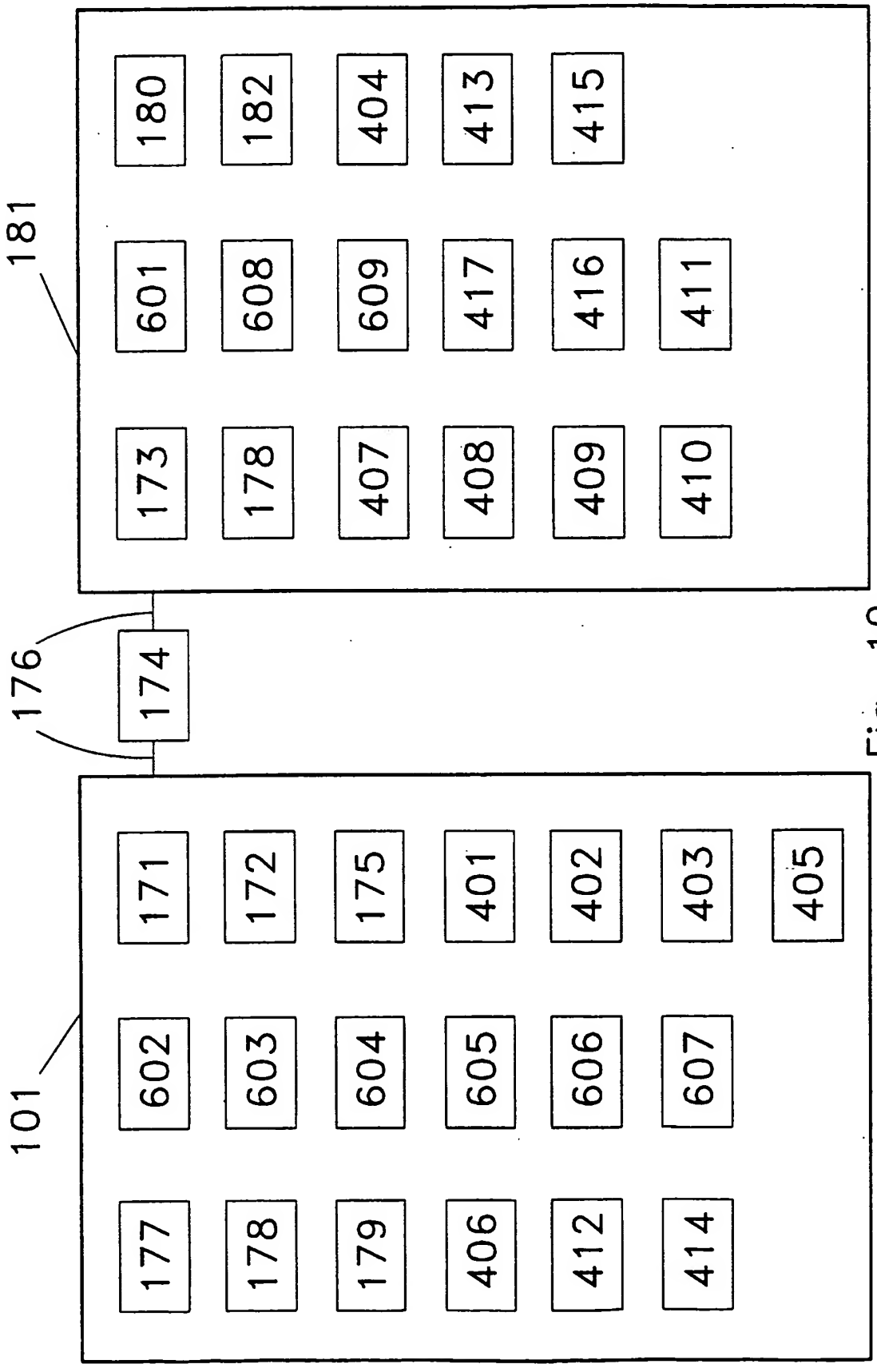
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Fig. 10

IHC Deparaffinization Process:

Process	Protocol Step	Time (min)	Temp C	Waste Segregation
Deparaffinization	Switch			Hazardous Waste
	Histoclear	5		
	Drain			
	Histoclear	5		
	Drain			
Re-Hydration	100% Ethanol	5		
	Drain			
	100% Ethanol	5		
	Drain			
	95% Ethanol	5		
	Drain			
	95% Ethanol	5		
	Rinse - Water	5		
	Switch			Non-Hazardous Waste
Target Retrieval	Target Retrieval	20	95	
	Target Retrieval Cool	20	55	
	Rinse - Water	5	RT	
Enzyme/Antibody Application	Peroxide Block	5		
	Enzyme Pretreatment	5		
	Rinse - Buffer			
	Pre-Diluted Antibody	10		
	Rinse - Buffer			
	EnVision-HRP	10		
Chromogen/ Counterstain Treatment	Rinse - Buffer			
	Switch			Hazardous Waste
	DAB	5		
	Rinse - Buffer			
	Hematoxylin	5		
	Rinse - Water			

Fig. 11